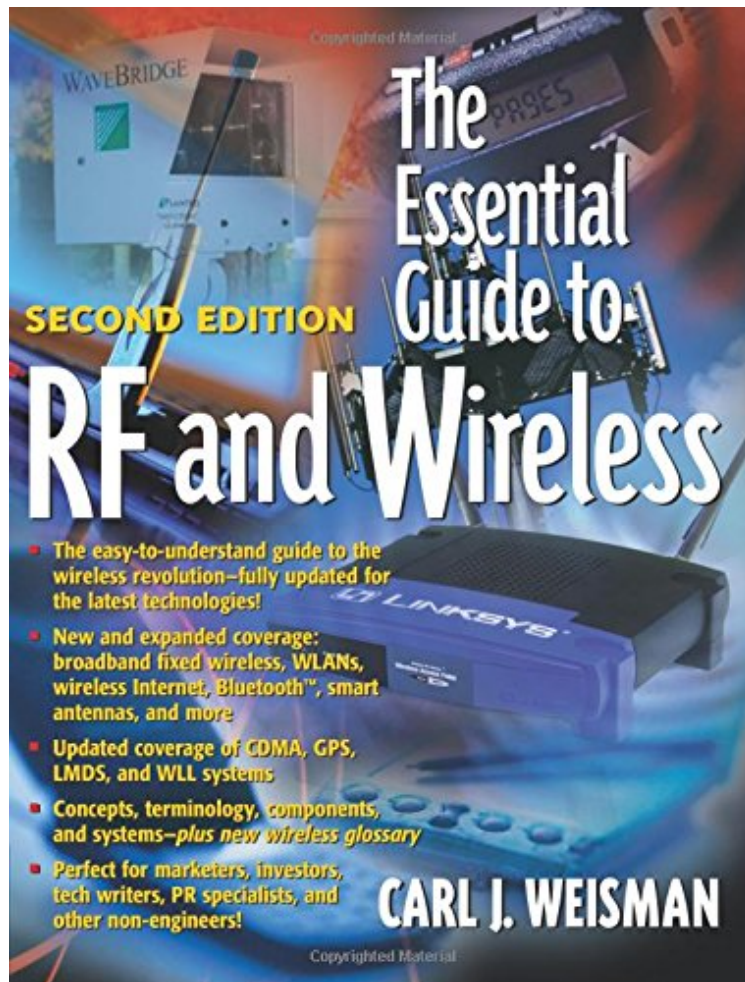


(Ebook pdf) The Essential Guide to RF and Wireless (2nd Edition)

## The Essential Guide to RF and Wireless (2nd Edition)

Carl J. Weisman

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**Carl J. Weisman : The Essential Guide to RF and Wireless (2nd Edition)** before purchasing it in order to gage whether or not it would be worth my time, and all praised The Essential Guide to RF and Wireless (2nd Edition):

0 of 0 people found the following review helpful. Great book for getting a rudimentary understanding of RFBy L. BelloWorking as a electro-mechanical assembler in the RF industry where my job is simple assembly without need for an in-depth understanding of the technology (we leave that to the engineering team and test department), this was the perfect guide. I now have a better understanding of the "how and why" with regard to an RF generator's design. Really well written with a touch of humor to keep the subject from being too dry. The illustrations are a great help as well. The only thing I would have liked to see added would be an index of symbols for easy reference, but that can be found in a basic electronics book. I recommend this book to anyone who works in the RF industry that has a natural curiosity about how it works, but don't necessarily need or want a degree level education in the subject.1 of 1 people found the following review helpful. Good Read and Helpful Refresher to RF CommunicationBy Diesel496This book provides

the basic fundamentals of RF communications in terms of how it works and the components that make it possible. This is NOT a RF Design book. It is a good source to get the fundamentals of RF and Wireless communications. Do not be deceived, the reader should have a technical background if they intend to understand the material in this book. I received my B.S. Electrical Engineering in 1998. I am a networking guy and was RUSTY with a lot of the concepts of RF communications. This book is an EXCELLENT refresher to the concepts of RF Engineering. I have it on my Kindle app and I am on page 2934 of 5753. I forgot to mention it's lengthy but take your time to read it and definitely highlight pages so it will be easier to reference them in the future. 2 of 2 people found the following review helpful. Perfect for the Moderately Technical By Parker EA Excellent book if you are interested in RF but not an engineer. Nor is it for you if you are a technophobe, but you would not be considering it if you were. If you are in that middle ground and need to deal with RF, e.g. a manager, a tech writer, or programmer (like me), then this book is exactly what you are looking for. I have not found any other similar book. The book is very well written and never put me to sleep. Carl Weisman manages to consistently hit the appropriate level of detail, and his light hearted approach keeps it interesting. Since I am a programmer on a old VHF system, I was mostly interested in the first 190 pages: RF theory, components, and systems (broadcast, radar, satellite, microwave). I mostly skimmed the later sections (80 pages on cellular, wireless networks, etc.), but what I read there was equally well written. There is also 30 pages of reference info: glossary, acronyms, explanation of units, etc. About the only issue I have with this book is the 2nd edition is from 2002, so you won't get the latest in cutting edge technology (e.g. no ZigBee), but it will give you the foundation to understand it -- terms like dBm, spread spectrum, BPSK, QPSK are made clear. With the foundation it provided, I hope to move on to a more technical book.

The only easy-to-understand guide to the wireless revolution! The easy-to-understand guide to the wireless revolution fully updated for the latest technologies! New and expanded coverage: broadband fixed wireless, WLANs, wireless Internet, Bluetooth, smart antennas, and more Updated coverage of CDMA, GPS, LMDS, and WLL systems Concepts, terminology, components, and systems plus new wireless glossary Perfect for marketers, investors, tech writers, PR specialists, and other non-engineers! There's a wireless revolution underway! With The Essential Guide to RF and Wireless, Second Edition, you can understand it, join it, and help drive it even if you don't have a technical background. Leading consultant Carl J. Weisman has thoroughly updated this bestseller to reflect new market realities and breakthrough technologies from wireless 802.11 LANs to broadband fixed wireless, and beyond. Mr. Weisman covers wireless at every level you need to understand: concepts, terminology, building blocks, and above all, how complete wireless systems actually work. Drawing on his extensive experience training sales professionals, he explains the essence of every key wireless/RF technology clearly, comprehensibly, and with just the right touch of humor. Spread spectrum and CDMA: how they work and why they're important New! Detailed section on broadband fixed wireless: the new "last mile" solution for residential subscribers New! Satellite Internet delivery New! Smart antenna and superconducting filter technologies and their implications New! Wireless Internet, m-commerce, and Bluetooth Expanded! Global Positioning Systems: technologies and applications Updated! Preview the future of mobile telephony Updated! Wireless LANs and home networking From its all-new glossary to its extensive collection of charts, diagrams, and photographs, no other wireless/RF book is as accessible or as friendly! Whether you're a sales or marketing pro, customer, investor, tech writer, PR specialist, trade press writer, analyst, planner, or student, here's the up-to-the-minute briefing you've been searching for!

From the Inside Flap Preface Nobody disputes the importance of wireless communications, and while it will surely continue to change and evolve, it is here to stay. Anybody who has received an urgent page, made an emergency call on a mobile phone, watched cable television, or been caught speeding by radar, will attest to its pervasiveness throughout everyday life. It is in recognition of the importance of RF electronics and its role in wireless communications that this book is written. This book simplifies the subject of RF electronics with analogies, metaphors, and a minimum of mathematics. Many photographs and figures are included to further help explain the subject. Unlike other books of its kind, however, it takes a distinctly lighthearted approach to the subject by incorporating witticisms and sarcasm, occasionally directed at the book's hypothetical protagonist: the RF engineer. This book is intentionally made lighthearted because the subject matter is so dry. My feeling is, no matter how brilliantly written or factually correct an introductory book on RF is, if it is too long and boring, you will never get past the first chapter. The Essential Guide to RF and Wireless takes an overly simplistic approach to the subject matter. In this vein, it accomplishes two main objectives: it provides a conceptual understanding of RF components and wireless systems, and it exposes you to the main vocabulary used in the industry. You can hardly expect to understand a topic as complex as wireless communications without first learning its lingua franca. The Essential Guide to RF and Wireless is intended for nontechnical people who know absolutely nothing about RF, but need to or just want to explore the subject. For every engineer working in the field of RF, there are many more nontechnical people working in the field who can benefit from understanding and speaking RF. They include nontechnical managers, sales administrators, distribution specialists, manufacturer's representatives, buyers, marketing and communications personnel, advertising

agents, trade show booth staffers, executive recruiters, financial analysts, and technical writers. This book can be used in three different ways. First, it can be read cover-to-cover as the material is organized in such a way that each successive chapter builds on the one before it, starting with basic concepts and terminology, and ending with the various kinds of wireless systems. Second, each chapter can be read on a stand-alone basis, for those who need to quickly grasp a single subject or concept. Because of this stand-alone structure, some of the subject matter is repeated in an effort to make each chapter understandable by itself. Finally, this book can be used as a reference. The many tables, the Glossary, and Appendices A and B provide quick access to terminology, acronyms, and specifications used in the wireless industry. Regardless of how you use this book, if you are new to the subject of RF, you should read all of Part 1 (Chapters 1 and 2), as the rest of the book builds on the fundamental concepts and vocabulary introduced there. Part 2 (Chapters 3, 4, and 5) is primarily intended for those working in the RF and wireless industry, as it covers the workings of an RF system in great detail. All of the important building blocks used to make RF hardware are explained in detail, as are the different technologies used to manufacture them. Also covered is the fascinating topic of modulation, which is how ground-based information gets prepared to enter the wireless world. Finally, Part 3 (Chapters 6 and 7) is where the fun begins. This part of the book gives you an overview of several wireless systems. Chapter 6 discusses some systems you are already familiar with, but probably never knew how they worked. Finally, Chapter 7 introduces you to the newer systems, for which the term wireless was invented. You will learn about some established wireless systems, as well as some systems that are so new they have yet to be fully deployed, or in some cases, even fully authorized. I would like to thank one very special person, Deborah Person, who spent her valuable time to help me with this book. She was a tremendous source of encouragement and her effort was invaluable in proofreading the manuscript, which is quite a feat for an accountant. If you would like to provide me with feedback on this book, feel free to contact me at [weisman@flashEnjoy](mailto:weisman@flashEnjoy).

**From the Back Cover**  
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The easy-to-understand guide to the wireless revolution-fully updated for the latest technologies! New and expanded coverage: broadband fixed wireless, WLANs, wireless Internet, Bluetooth, smart antennas, and more  
Updated coverage of CDMA, GPS, LMDS, and WLL systems  
Concepts, terminology, components, and systems-plus new wireless glossary  
Perfect for marketers, investors, tech writers, PR specialists, and other non-engineers!  
There's a wireless revolution underway! With "The Essential Guide to RF and Wireless, Second Edition," you can understand it, join it, and help drive it-even if you don't have a technical background. Leading consultant Carl J. Weisman has thoroughly updated this bestseller to reflect new market realities and breakthrough technologies-from wireless 802.11 LANs to broadband fixed wireless, and beyond. Mr. Weisman covers wireless at every level you need to understand: concepts, terminology, building blocks, and above all, how complete wireless systems actually work. Drawing on his extensive experience training sales professionals, he explains the essence of every key wireless/RF technology-clearly, comprehensibly, and with just the right touch of humor. Spread spectrum and CDMA: how they work and why they're important  
New! Detailed section on broadband fixed wireless: the new "last mile" solution for residential subscribers  
New! Satellite Internet delivery  
New! Smart antenna and superconducting filter technologies and their implications  
New! Wireless Internet, m-commerce, and Bluetooth Expanded! Global Positioning Systems: technologies and applications  
Updated! Preview the future of mobile telephony  
Updated! Wireless LANs and home networking  
From its all-new glossary to its extensive collection of charts, diagrams, and photographs, no other wireless/RF book is as accessible or as friendly!  
Whether you're a sales or marketing pro, customer, investor, tech writer, PR specialist, trade press writer, analyst, planner, or student, here's the up-to-the-minute briefing you've been searching for!  
About the Author  
CARL J. WEISMAN has extensive experience communicating with non-technical people in the sales chain of RF components and subsystems and has done extensive sales training for RF manufacturers' representatives and distributors such as Avnet/Penstock, Richardson Electronics, Sertek, TTI, and Insight Electronics. He is now a consultant providing marketing communications, technology analysis, and other relevant expertise to high-technology firms.